

1 What is claimed is:

2 1. An improved magnetic construction toy comprising:

3 (a) a magnetizable body;

4 (b) a construction member for magnetically coupling with said magnetizable
5 body comprising a hub portion having a geometrical center, a multiplicity of connecting arms
6 extending radially from said geometrical center of said hub portion where each said connecting
7 arm has an axis of symmetry extending radially from said geometrical center and where each
8 said connecting arm has a first end and a second portion where said second portion is spaced
9 axially opposite from said first end and is integrally associated with said hub portion, a
10 permanent magnet captively carried adjacent said first end of each said connecting arm for
11 magnetically coupling with said magnetizable body, where each said axis of symmetry is in the
12 same plane and angularly spaced in equal angular increments.

13 2. The improved magnetic construction toy recited in Claim 1 where each said
14 connecting arm has a peripheral surface that is radially symmetrical with respect to said
15 symmetrical axis in planes orthogonally intersecting said symmetrical axis intermediate said
16 first end and said second portion of said connecting arm.

17 3. The improved magnetic construction toy recited in Claim 1 where the angle
18 between each said axis of symmetry is ninety degrees.

19 4. The improved magnetic construction toy recited in Claim 1 where the angle
20 between each said axis of symmetry is one hundred twenty degrees.

21 5. The improved magnetic construction toy recited in Claim 2 where said
22 magnetizable body is spherically shaped.

23 6. The improved magnetic construction toy recited in Claim 2 where said first end is
24 tapered.

25 7. The improved magnetic construction toy recited in Claim 1 where each said
26 connecting arm has a peripheral surface intermediate said second portion and said first end of
27 said connecting arm that is a surface of revolution with respect to said symmetrical axis.

28 8. The improved magnetic construction toy recited in Claim 7 where the angle
29 between each said axis of symmetry is ninety degrees.

1 9. The improved magnetic construction toy recited in Claim 7 where said axis of
2 symmetry are displaced from each other in increments of one hundred twenty degrees.

3 10. The improved magnetic construction toy recited in Claim 7 where said
4 magnetizable body is spherically shaped.

5 11. An improved magnetic construction toy member comprising:

6 (a) a hub portion having a geometrical center,

7 (b) a multiplicity of connecting arms extending radially from said geometrical
8 center of said hub portion where each said connecting arm has an axis of symmetry extending
9 radially from said geometrical center and where each said connecting arm has a first end and a
10 second portion where said second portion is spaced axially opposite from said first end and is
11 integral with said hub portion,

12 (c) a permanent magnet captively carried adjacent said first end of each said
13 connecting arm for magnetically coupling with said magnetizable body, where each said axis of
14 symmetry is in the same plane and angularly spaced in equal angular increments.

15 12. The improved magnetic construction toy member recited in Claims 11 where each
16 said connecting arm has a peripheral surface that is radially symmetrical with respect to said
17 symmetrical axis in planes orthogonally intersecting said symmetrical axis intermediate said
18 first end and said second portion of said connecting arm.

19 13. The improved magnetic construction toy member recited in Claim 11 where the
20 angle between each said axis of symmetry is ninety degrees.

21 14. The improved magnetic construction toy member recited in Claim 11 where the
22 angle between each said axis of symmetry is one hundred twenty degrees.

23 15. The improved magnetic construction toy member recited in Claim 11 where said
24 first end is tapered.

25 16. The improved magnetic construction toy member recited in Claim 11 where each
26 said connecting arm has a peripheral surface intermediate said second portion and said first end
27 of said connecting arm that is a surface of revolution with respect to said symmetrical axis.

28 17. The improved magnetic construction toy member recited in Claim 11 where the
29 angle between each said axis of symmetry is ninety degrees.
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1 18. The improved magnetic construction toy member recited in Claim 11 where the
2 angle between each said axis of symmetry is one hundred twenty degrees.
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